SPECIFICATIONS FOR APPROVAL

Customer Name:	深圳金亚太科	技有限公司					
Product Name:	WIFI&BT Antenna						
Product Model:							
Part Number:	LJF02-23072	908-R0A					
Write By :	Huxuwe	n					
Issued Date:	2023-07-29						
CUSTOMER							
ENGINEER R&D DEPT	BUSSINESS DEPT	APPROVAL					
黄群							
LEJIN							
R&D DEPT	ENGINEER DEPT	APPROVAL					

REV	MODIFIED DESCRIPTION	DATE	REMARK
V1.0	Initial Draft Release	2023/07/29	

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3. Product Specification

A. Electrical Characteristics	A. Electrical Characteristics								
Frequency	2400MHz ~2500 MHz								
	5150MHz ~5850 MHz								
VSWR	<2.0								
Efficiency	≥40%								
Impedance	50Ohm								
Polarization	Linear								
Gain(5.8GHz)	≤2.50dB								
B. Material & Mechanical Characteristic	es								
Material of Radiator	FPC(black),LJWF82A								
Cable Type	Φ1.13mm,L88mm,Black								
Connector Type	IPX1								
Dimension	45.0*12.0mm								
C. Environmental									
Operation Temperature	- 20 °C ~ + 70 °C								
Storage Temperature	- 30 °C ~ + 85 °C								
Humidity	40%~95%								

4.Test Equipment & Conditions

1. Network Analyzers Agilent 8753D/5071C

2.HSPA and LTE protocol test set R&S CMW500 -PT

3. Communications Test Set Agilent 8960

4.3D Chamber Test System

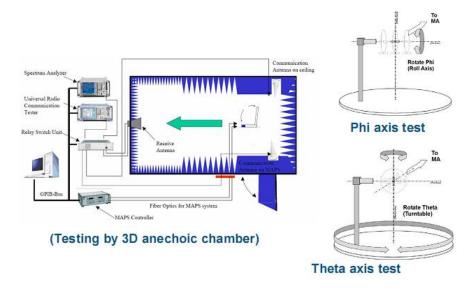


Chart 1 Test topology

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5.Test Report

5.1 Voltage Standing Wave Ratio(VSWR).

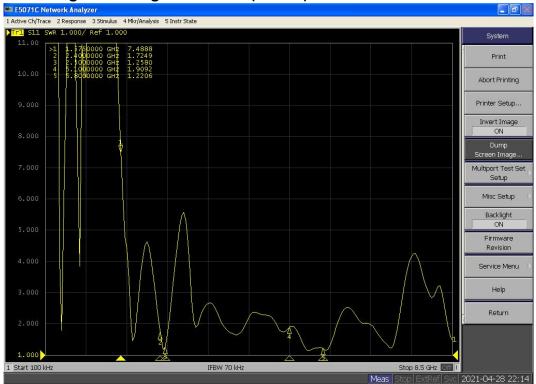


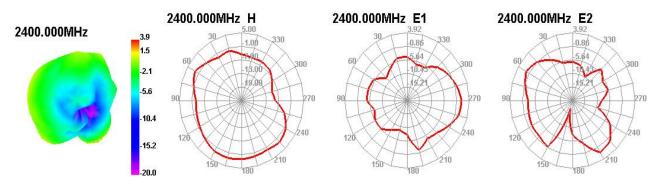
Chart 2 VSWR

5.2 Efficient and gain.

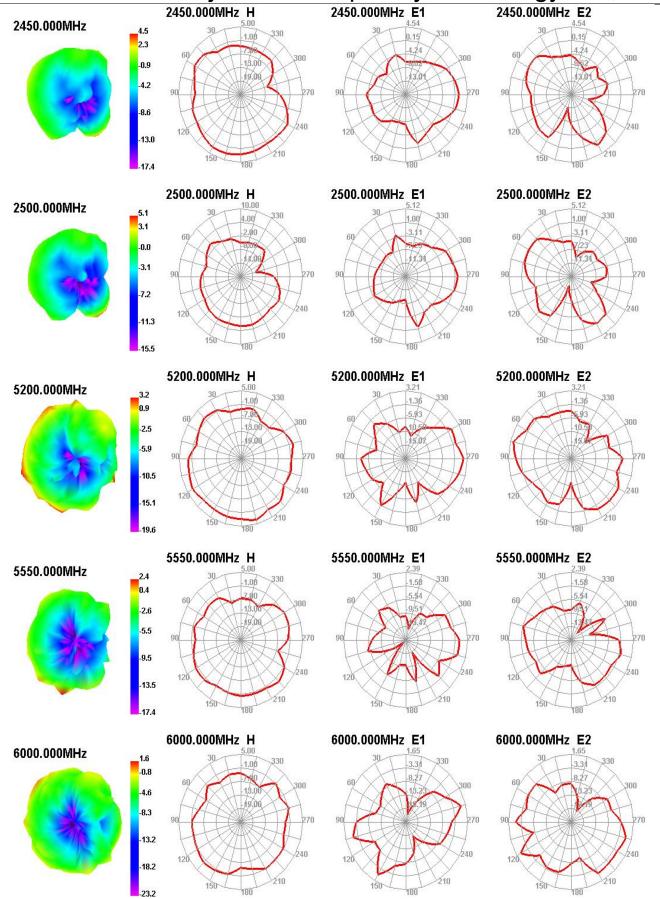
Passive	Freq(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Test For	Effi(%)	44.23	50.11	46.89	50.76	46.81	49.61	45.86	51.10	47.41	47.89	41.85
2.4G	Gain(dBi)	1.84	1.92	1.97	2.08	2.05	2.19	1.95	2.07	2.17	2.06	1.80

Passive	Freq(MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850
Test For	Effi(%)	51.22	53.19	50.84	54.64	52.43	54.77	57.28	52.72	54.71	50.55	55.99	51.51	53.22	57.32	51.92
WIFI 5G	Gain(dBi)	2.11	2.25	2.19	2.24	2.22	2.15	2.24	2.18	2.12	2.28	2.23	2.15	2.24	2.21	2.15

5.3 Radiation pattern.



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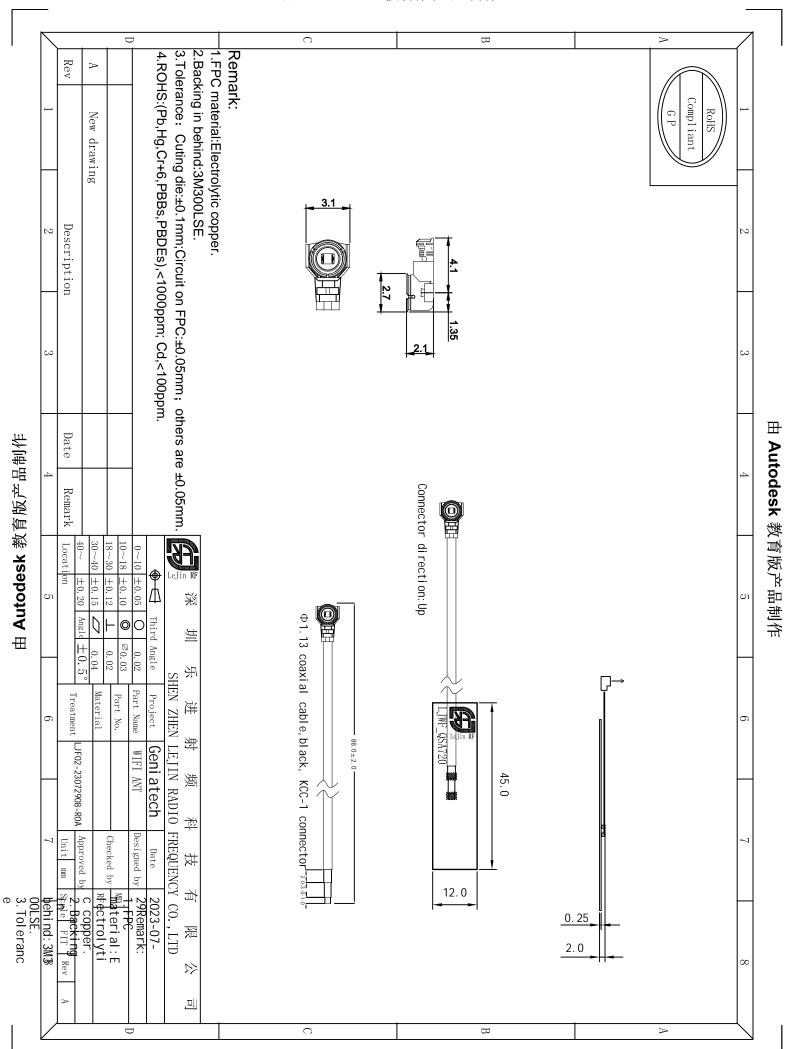


6.Reliability Test

	Test Item	Test condition	Equipment	Specific	cation	Result
		Temperature: -30°C, Time:48hrs		No 1	material	
	T T	Test condition: Placing antenna in a Low/High	Temp.&Hum	deformati	on is	
1	Low Temp. Storage	Temperature Chamber, keep the temp is 25 $^{\circ}\mathrm{C}$ and humidity is	;	allowed.		PASS
1	Test	65% for one hour, then step-down the temp. to $-30{}^\circ\!{}{}^\circ\!{}^\circ$ in one	Tester	Electronic	2	
	1681	hour, store antenna for44 hours; step-up temp to 25 $^\circ \! \mathbb{C}$,test	1 ester	Performa	nce is	
		antenna after 2 hours.		ok .		
		Temperature: 85℃ Humidity: 85% RH Time:48hrs		No 1	material	
	High	Test condition: Placing antenna in a Low/High	Tomm & Hum	deformati	on is	PASS
	Temp./High	Temperature Chamber, keep the temp is 25 °C and humidity is	Temp.&Hum	allowed.		
	Humid	65% for one hour, then step-up the temp. to $80~{}^{\circ}\!$	Tester	Electronic	2	rass
	Storage Test	humidity up to 85% in one hour, store antenna for 44 hours;	1 ester	Performa	nce is	
		step-down tempto $25^\circ\!\!\mathrm{C}$,test antenna after 2 hours.		ok .		
	Salt-Spray 6	Placing antenna in the Salt-Spray Tester ,set the test	C - 14 C	No color	change	
3		condition ,Temp: $35{\pm}2$ $^{\circ}$ C Humidity: 85% NaCl salt spray :5	Salt-Spray	No	appear	PASS
		\pm 1%.PH value :6.5~7.2 Testtime:24hours	Tester	rusting		

7.Assemble type(omit)

8.Product Drawing



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